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In re Application of

Application Number

09-770,410

Filed

Jan. 25. 01

Paper No. 15

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US 20020088753A1

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2002/0088753 A1

Huber et al.

(43) Pub. Date: Jul. 11, 2002

(54) METHOD AND APPARATUS FOR
SEPARATING POLYNUCLEOTIDES USING
MONOLITHIC CAPILLARY COLUMNS

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(21) Appl. No.: 09/770,410

(22) Filed: Jan. 25, 2001

Related U.S. Application Data

(63) Non-provisional of provisional application No.
60/178,553, filed on Jan. 26, 2000.

Publication Classification

(51) Int. Cl.⁷ B01D 15/08
(52) U.S. Cl. 210/656; 210/635; 210/198.2

(57) **ABSTRACT**

Methods and devices based on capillary monolithic columns, preferably consisting of an underivatized poly(styrene-divinylbenzene) monolith, for separating a mixture of polynucleotides by ion pair-reverse phase-high performance chromatography (IP-RP-HPLC). In various aspects of the method and device the monolith is characterized by one or more of the following: the monolith is contained within a capillary tube; the monolith is immobilized by covalent attachment at the inner wall of the tube; the tube is devoid of retaining frits; the monolith is characterized by having above 10,000 theoretical plates per meter and preferably above 200,000 theoretical plates per meter; the method uses a mobile phase which is devoid of EDTA; the monolith has a surface morphology that is rugulose or brush-like; the chromatographic surfaces of the monolith are non-porous; the monolith has channels sufficiently large for convective flow of the mobile phase; the monolith is formed from a polymerization mixture including underivatized styrene, a crosslinking agent, and a porogen, wherein the porogen includes tetrahydrofuran. The monolith can be incorporated into a miniaturized chromatography system which can be coupled to a mass spectrometer for on-line separation and mass determination of single- or double-stranded polynucleotides.

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#543434



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Search results for application number: 09/770,410

Application Number:	09/770,410	Customer Number:	
Filing or 371(c) Date:	01-25-2001	Status:	Abandoned -- Failure Respond to an Office
Application Type:	Utility	Status Date:	06-20-2003
Examiner Name:	THERKORN, ERNEST G	Location:	TECH CENTER 1700 TEAM 2, CP3, 5C24
Group Art Unit:	1723	Location Date:	07-01-2003
Confirmation Number:	6186	Earliest Publication No:	US 2002-0088753-A1
Attorney Docket Number:	P-576	Earliest Publication Date:	07-11-2002
Class/ Sub-Class:	210/656	Patent Number:	
First Named Inventor:	Christian Huber, Rum, (AT)	Issue Date of Patent:	
Title Of Invention:	Method and apparatus for separating polynucleotides using monolithic capillary columns		

Foreign Priority

Continuity Data

File Contents History

Number	Date	Contents Description
21	06-20-2003	Mail Abandonment for Failure to Respond to Office Action
20	06-20-2003	Abandonment for Failure to Respond to Office Action
19	11-19-2002	Information Disclosure Statement (IDS) Filed
18	10-11-2002	Mail Non-Final Rejection
17	10-10-2002	Non-Final Rejection
16	09-30-2002	Information Disclosure Statement (IDS) Filed
15	10-03-2002	Date Forwarded to Examiner
14	09-30-2002	Response to Election / Restriction Filed
13	09-30-2002	Request for Extension of Time - Granted
12	06-25-2002	Mail Restriction Requirement
11	06-24-2002	Requirement for Restriction / Election
10	01-04-2002	Case Docketed to Examiner in GAU
9	12-10-2001	Application Dispatched from OIPE
6	05-21-2001	CRF Is Good Technically / Entered Into Database
5	03-22-2001	Incomplete Application under Rule 53(b) - Filing Date Assigned
4	03-21-2001	Correspondence Address Change
3	03-21-2001	Correspondence Address Change
2	02-12-2001	FW Scan & PACR Auto Security Review